PPP1CA rabbit monoclonal antibody

Catalog # H00005499-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human PPP1CA peptide using ARM Technology.
Immunogen	A synthetic peptide of human PPP1CA is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human PPP1CA peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

- ELISA

Gene Info — PPP1CA

Entrez GeneID	5499
GeneBank Accession#	PPP1CA
Gene Name	PPP1CA
Gene Alias	MGC15877, MGC1674, PP-1A, PPP1A
Gene Description	protein phosphatase 1, catalytic subunit, alpha isoform
Omim ID	176875
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is one of the three catalytic subunits of protein phosphatase 1 (PP1). PP1 is a serine/threonine specific protein phosphatase known to be involved in the regulati on of a variety of cellular processes, such as cell division, glycogen metabolism, muscle contractili ty, protein synthesis, and HIV-1 viral transcription. Increased PP1 activity has been observed in th e end stage of heart failure. Studies in both human and mice suggest that PP1 is an important reg ulator of cardiac function. Mouse studies also suggest that PP1 functions as a suppressor of learn ing and memory. Three alternatively spliced transcript variants encoding different isoforms have b een found for this gene. [provided by RefSeq
Other Designations	protein phosphatase 1, catalytic subunit, alpha|serine/threonine protein phosphatase PP1-alpha 1 catalytic subunit

Pathway

- Focal adhesion
- Insulin signaling pathway
- Long-term potentiation
- Regulation of actin cytoskeleton
- Vascular smooth muscle contraction